	relicany on the i.e.,	ed on by the agency to indication and 2) does	o demonstrate es not duplicat onstrate the ef	the effectiveness of a	"to support exclusivity. The estigation that 1) has not been previously approved drug for investigation that was relied ously approved drug product, to have been demonstrated in	
	a)	For each investigation identified as "essential to the approval," has the investigation been relied on by the agency to demonstrate the effectiveness of a previously approved drug product? (If the investigation was relied on only to support the safety of a previously approved drug, answer "no.")				
		Investigation #1		YES //	NO//	
		Investigation #2			NO//	
		Investigation #3		YES //	NO//	
	<b>b</b> )	If you have answered "yes" for one or more investigations, identify each such investigation and the NDA in which each was relied upon:  NDA # Study # NDA # Study # For each investigation identified as "essential to the approval," does the investigation duplicate the results of another investigation that was relied on by the agency to support the effectiveness of a previously approved drug product?				
		Investigation #1		YES //	NO//	
		Investigation #2		YES //		
		Investigation #3		YES //		
		If you have answered "yes" for one or more investigations, identify the NDA in which a similar investigation was relied on:				
		NDA # NDA #	Study # Study # Study #			

		application or supplement that is essential to the approval (i.e., the investigations listed in #2(c), less any that are not "new"):
		Investigation #_, Study #
		Investigation #_, Study #
		Investigation #_, Study #
4.	spon appli or 2)	conducted or sponsored by the applicant. An investigation was "conducted or sponsored by the applicant. An investigation was "conducted or sored by" the applicant if, before or during the conduct of the investigation, 1) the cant was the sponsor of the IND named in the form FDA 1571 filed with the Agency, the applicant (or its predecessor in interest) provided substantial support for the study.
	a)	For each investigation identified in response to question 3(c): if the investigation was carried out under an IND, was the applicant identified on the FDA 1571 as the sponsor?
		Investigation #1
		IND # YES //! NO // Explain:
		Investigation #2
		IND # YES // NO // Explain:
	(b)	For each investigation not carried out under an IND or for which the applicant was not identified as the sponsor, did the applicant certify that it or the applicant's predecessor in interest provided substantial support for the study?
		Investigation #1
		YES // Explain NO // Explain
		<del>nergen de la lace de l</del> La lace de la lace de l
		<u>하는 것이 되는 것이 되었다. 그런 그런 사람들은 것이 되었다. 그런 </u>

	Investigation #2 YES // Explain	NO // Expla	iin	
(c)	Notwithstanding an answ that the applicant should study? (Purchased studie if all rights to the drug are be considered to have spoits predecessor in interest	not be credited with has may not be used as the purchased (not just students). The purchased or conducted the properties of the purchased or conducted the purchased or conducted the purchase or conduc	ving "conducted he basis for excl dies on the drug	l or sponsored" the usivity. However, the applicant may
		YES //	NO	<i>1</i>
	If yes, explain:			
Signature Title: Pips.	5/17/99 Date → Manneu			
Signature of I	/S/ Division Director	)  20/1999  Date	APPEARS TH ON ORIGI	

cc: Original NDA Division File HFD-85 Mary Ann Holovac

# PEDIATRIC PAGE

(Complete for all original applications and all efficacy supplements)

NDAIPLA #_21-0412
NDA/PLA # 21-04/2 Supplement # Circle one: SE1 SE2 SE3 SE4 SE5 SE6  HFD-550 Trade (generic) name/dosage form: (); excels to
HFD-550 Trade (generic) name/dosage form: (): 0xx (role cax b to block) To blocks Action: AP AE NA  Applicant YMEROL2  Indication(s) previously approved  Circle one: SE1 SE2 SE3 SE4 SE5 SE6  Applicant (12.5 mg + 2.5 mg)  Action: AP AE NA
Indication(s) previously approved
Pediatric labeling of approved indication(s) is adequateinadequate
Indicast: inadequate inadequate
(Constitution of this application Related as the second of
Indication in this application Reliable of signs + Symptons of asternature of acute pain (For supplements, answer the following questions in relation to the proposed indication.) and treatment of primary applications and beautiful Appropriate information.
1 PERISTRIAL AND AND THE PRINT OF ACUTE Pain
1. PEDIATRIC LABELING IS ADEQUATE. Appropriate information has been submitted in this or previous subgroups. Further information is not seen in the labeling to permit satisfactory level.
Subgroups from this or previous
are and the control of the control o
2 PEDIATRIC STUDIES and an arrangement of the state of th
2. PEDIATRIC STUDIES ARE NEEDED. There is potential for use in children, and further information is required to
tabeling for this use.
a. A new dosing formation:
to needed, and applicant has agreed to provide the second
<ul> <li>a. A new dosing formation is needed, and applicant has agreed to provide the appropriate formulation.</li> <li>b. The applicant has committed to doing such studies as will be required.</li> </ul>
(1) Studies are enactional during such studies as will be required
reneral despeta in <del>la come</del> nta de la companya del companya del companya de la companya del companya del companya de la companya de la companya de la companya de la companya del companya
(3) Protocols were submitted and approved.  (4) If no protocol has been and are under review.
(4) It no protocol has been submitted explain the
c. If the spaces:
and any process of the second
done and of the sponsor's written response to the surfice request that such
9. BEPEUIATRIC STUDIES And Account to the second secon
PEDIATRIC STUDIES ARE NOT NEEDED. The drug/biologic product has little potential for use in children.  4. EXPLANT.
4. EXPLAIN. If none of the shave posts
4. EXPLAIN. If none of the above apply, explain, as necessary, on the back of this form.
EXPLAIN, AS NECESSARY, ANY OF THE FOREGOING ITEMS ON THE BACK OF THIS FORM.
THE BACK OF THIS FORM.
Signature of Pro-
Signature of Preparer and Title (PM, CSO, MO, other) 5/20/99
CC: Orig NDA/PLA # <u>al-042</u> HFD-550   Div File
NDA/PLA Action Package
HFD-510/GTcoods / /
HFD-510/GTroendle (plus, for CDER APs and AEs, copy of action letter and labeling)  TE: A new Pediatric B
TE: A new Pediatric Page must be seemed.
uran na matri tata Mulli Care ing kanggan panggangan na manggan banggan banggan na malanggan banggan na bangga

TE: A new Pediatric Page must be completed at the time of each action even though one was 5/95

MK-0966 Item 16 – Debarment Certification

As required by  $\S306(k)(1)$  of 21 U.S.C. 335a(k)(1), we hereby certify that, in connection with this application, Merck & Co., Inc did not and will not use in any capacity the services of any person debarred under subsections 306(a) or (b) of the Act.

EX	CLUSIN	ITY SUMMARY for NDA #21-052 SUPPL #
		e: Vioxx Suspension
Ger	ieric Na	me: rofecoxib 12.5 mg/mL and 25 mg/mL suspension
		Same: Merck Research Laboratories HFD-550
		ate
PAI	RT I <u>IS</u>	AN EXCLUSIVITY DETERMINATION NEEDED?
	An e	sclusivity determination will be made for all original applications, but only for certain ements. Complete Parts II and III of this Exclusivity Summary only if you answer to one or more of the following questions about the submission.
		it an original NDA? YES /X/ NO//
	b) Is	it an effectiveness supplement?
		YES // NO/X/
	Ify	es, what type? (SE1, SE2, etc.)
	<b>c</b> )	Did it require the review of clinical data other than to support a safety claim or change in labeling related to safety? (If it required review only of bioavailability or bioequivalence data, answer "no.")
		YES 'X/ NO //
		If your answer is "no" because you believe the study is a bioavailability study and, therefore, not eligible for exclusivity, EXPLAIN why it is a bioavailability study, including your reasons for disagreeing with any arguments made by the applicant that the study was not simply a bioavailability study.
		If it is a supplement requiring the review of clinical data but it is not an effectiveness supplement, describe the change or claim that is supported by the clinical data:

YES X/ NO//			
If the answer to (d) is "yes," how many years of exclusivity did the applicant request?			
5 YEARS			
IF YOU HAVE ANSWERED "NO" TO ALL OF THE ABOVE QUESTIONS, GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8.			
2. Has a product with the same active ingredient(s), dosage form, strength, route of administration, and dosing schedule previously been approved by FDA for the same use?			
YES // NO /X/			
If yes, NDA # Drug Name			
IF THE ANSWER TO QUESTION 2 IS "YES," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8.			
3. Is this drug product or indication a DESI upgrade?			
YES/ NO /X/			
IF THE ANSWER TO QUESTION 3 IS "YES," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8 (even if a study was required for the upgrade).			

d) Did the applicant request exclusivity?

### PART II FIVE-YEAR EXCLUSIVITY FOR NEW CHEMICAL ENTITIES (Answer either #1 or #2, as appropriate)

1	C:	1 .						
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				<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	1CIIL	DIOUI	uu.

Has FDA previously approved under section 505 of the Act any drug product containing the same active moiety as the drug under consideration? Answer "yes" if the active moiety (including other esterified forms, salts, complexes, chelates or clathrates) has been previously approved, but this particular form of the active moiety, e.g., this particular ester or salt (including salts with hydrogen or coordination bonding) or other non-covalent derivative (such as a complex, chelate, or clathrate) has not been approved. Answer "no" if the compound requires metabolic conversion (other than deesterification of an esterified form of the drug) to produce an already approved active moiety.

	YES // NO /X/
	If "yes," identify the approved drug product(s) containing the active moiety, and, if known, the NDA #(s).
1	NDA#
ì	NDA#
ŀ	NDA#
2.	Combination product.
	If the product contains more than one active moiety (as defined in Part II, #1), has FDA previously approved an application under section 505 containing any one of the active moieties in the drug product? If, for example, the combination contains one never-before-approved active moiety and one previously approved active moiety, answer "yes." (An active moiety that is marketed under an OTC monograph, but that was never approved under an NDA, is considered not previously approved.)
	YES/ No//
	If "yes," identify the approved drug product(s) containing the active moiety, and, if known, the NDA #(s).
	NDA #
	NDA#

IF THE ANSWER TO QUESTION 1 OR 2 UNDER PART II IS "NO," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8. IF "YES," GO TO PART III.

#### PART III THREE-YEAR EXCLUSIVITY FOR NDA'S AND SUPPLEMENTS

To qualify for three years of exclusivity, an application or supplement must contain "reports of new clinical investigations (other than bioavailability studies) essential to the approval of the application and conducted or sponsored by the applicant." This section should be completed only if the answer to PART II, Question 1 or 2, was "yes."

1. Does the application contain reports of clinical investigations? (The Agency interprets "clinical investigations" to mean investigations conducted on humans other than bioavailability studies.) If the application contains clinical investigations only by virtue of a right of reference to clinical investigations in another application, answer "yes," then skip to question 3(a). If the answer to 3(a) is "yes" for any investigation referred to in another application, do not complete remainder of summary for that investigation.

YES /\_\_/ NO/\_\_/

#### IF "NO," GO DIRECTLY TO THE SIGNATURE BLOCKS ON PAGE 8.

2. A clinical investigation is "essential to the approval" if the Agency could not have approved the application or supplement without relying on that investigation. Thus, the investigation is not essential to the approval if 1) no clinical investigation is necessary to support the supplement or application in light of previously approved applications (i.e., information other than clinical trials, such as bioavailability data, would be sufficient to provide a basis for approval as an ANDA or 505(b)(2) application because of what is already known about a previously approved product), or 2) there are published reports of studies (other than those conducted or sponsored by the applicant) or other publicly available data that independently would have been sufficient to support approval of the application, without reference to the clinical investigation submitted in the application.

For the purposes of this section, studies comparing two products with the same ingredient(s) are considered to be bioavailability studies.

(a) In light of previously approved applications, is a clinical investigation (either conducted by the applicant or available from some other source, including the published literature) necessary to support approval of the application or supplement?

YES \_\_\_/ NO/\_\_/

	If "n appr	o," state the basis for your conclusion that a clinical trial is not necessary for oval AND GO DIRECTLY TO SIGNATURE BLOCK ON PAGE 8:				
(b)	Did effec woul	the applicant submit a list of published studies relevant to the safety and tiveness of this drug product and a statement that the publicly available data d not independently support approval of the application?				
		YES // NO//				
	(1)	If the answer to 2(b) is "yes," do you personally know of any reason to disagree with the applicant's conclusion? If not applicable, answer NO.				
		YES/ NO //				
	If yes, explain:					
	(2)	If the answer to 2(b) is "no," are you aware of published studies not conducted or sponsored by the applicant or other publicly available data that could independently demonstrate the safety and effectiveness of this drug product?				
		YES NO//				
	If yes,	explain:				
(c)	If the answers to (b)(1) and (b)(2) were both "no," identify the clinical investigations submitted in the application that are essential to the approval:					
	Investigation #1, Study #					
	Investi	gation #2, Study #				
		gation #3. Study #				

relie any on b	In addition to being essential, investigations must be "new" to support exclusivity. The agency interprets "new clinical investigation" to mean an investigation that 1) has not been telied on by the agency to demonstrate the effectiveness of a previously approved drug for any indication and 2) does not duplicate the results of another investigation that was relied on by the agency to demonstrate the effectiveness of a previously approved drug product i.e., does not redemonstrate something the agency considers to have been demonstrated in already approved application.					
a)	For each investigation ider been relied on by the ag approved drug product? (I of a previously approved of	ency to demonstrate the fithe investigation was relie	ettectivenece of a meaning			
	Investigation #1	YES	NO//			
	Investigation #2	YES/	NO//			
	Investigation #3	YES	NO / /			
	If you have answered "ye investigation and the NDA NDA # Study NDA # Study Study	tin which each was relied  # #	upon:			
b)	For each investigation iden duplicate the results of an support the effectiveness of the the effe	tified as "essential to the apother investigation that w	as relied on by the agency	tion y to		
	Investigation #1	YES	NO//			
	Investigation #2	YES	NO//			
	Investigation #3	YES	NO//			
	If you have answered "yes" for one or more investigations, identify the NDA in which a similar investigation was relied on:					
	NDA #       Study #         NDA #       Study #         NDA #       Study #					

	<b>c</b> )	If the answers to 3(a) and 3(b) are no. identify each "new" investigation in the application or supplement that is essential to the approval (i.e., the investigations listed in #2(c), less any that are not "new"):
		Investigation #_, Study #
		Investigation #_, Study #
		Investigation #_, Study #
4.	spor appl or 2)	be eligible for exclusivity, a new investigation that is essential to approval must also have a conducted or sponsored by the applicant. An investigation was "conducted or itsored by" the applicant if, before or during the conduct of the investigation, 1) the iteration icant was the sponsor of the IND named in the form FDA 1571 filed with the Agency, the applicant (or its predecessor in interest) provided substantial support for the study, inarily, substantial support will mean providing 50 percent or more of the cost of the
	a)	For each investigation identified in response to question 3(c): if the investigation was carried out under an IND, was the applicant identified on the FDA 1571 as the sponsor?
		Investigation #1
		IND # YES //! NO // Explain:
		마르크 보다는 것이 되는 것이 되었다. 그는 것이 되었다. 그런
		Investigation #2
		IND # YES // NO Explain:
	(b)	For each investigation not carried out under an IND or for which the applicant was not identified as the sponsor, did the applicant certify that it or the applicant's predecessor in interest provided substantial support for the study?
		Investigation #1
		YES / / Explain NO / / Explain
		adika dinangga panggan panggan kanggan kanggan panggan panggan panggan panggan panggan panggan panggan panggan Panggan panggan pangga
		CHECHTER CONTROL OF THE CONTROL OF THE CONTROL OF THE C

	Investigation #2 YES // Explain	NO ′/ Explain	
<b>(</b> c)	study? (Purchased stud	wer of "yes" to (a) or (b), are to not be credited with having "ies may not be used as the base purchased (not just studies or onsored or conducted the studiest.)	is for exclusivity. However,
		YES/	NO//
	If yes, explain:		
Signature of D	S/20/97 Date  Manager  Vision Director	1/20/1999 APPEAR	S THIS WAY
	A raiou Duectoi	· Date	RIGINAL

cc: Original NDA Division File HFD-85 Mary Ann Holovac

# PEDIATRIC PAGE

(Complete for all original applications and all efficacy supplements)

DIE/	Circle one: SE1 SE2 SE3 SE4 SE5:	
HH2 -	Trade (generic) nameldosana forma ()	SE6
Applica	on Man D Suspension Oral Action: (1) AT	NA
Indicati	Therapeutic Class 10	
Pedia	on(s) previously approved	
	tric labeling of approved indication(s) is adequate inadequate	
ndicatio		
(For si	infloments - Relief of siens Sunda	
	applements, answer the following questions in relation to the mannet ment of an it and	
	pplements, answer the following questions in relation to the proposed indication.)  PEDIATRIC LABELING IS ADEQUATE. Appropriate information by a second primary applications and by the second primary applications are second primary applications.	and
	PEDIATRIC LABELING IS ADEQUATE. Appropriate information has been submitted in this or previous subgroups. Further information is not as a subgroups.	yum
	applications and has been adequately summarized in the labeling to permit satisfactory labeling for all pediatric	
	and the information is not required.	
上2	PEDIATRIC STUDIES ADD 11-1-	
	PEDIATRIC STUDIES ARE NEEDED. There is potential for use in children, and further information is required to	
	to this use.	to
	a. A new dosing formation is party	
	a. A new dosing formation is needed, and applicant has agreed to provide the appropriate formulation.  b. The applicant has committed a second	
-	b. The applicant has committed to doing such studies as will be required.	
	(1) Studies are ongoing,	
	2 Protocols were not to the second se	
	(3) Protocols were submitted and are under review.  (4) If no protocol has been extensive the content of the co	
	(4) If no protocol has been submitted, explain the status of J.	
<u> </u>	(4) If no protocol has been submitted, explain the status of discussions on the back of this form.	
	studies be done and of the sponsor's written response to that request.	
3.	PEDIATRIC STUDIES ARE NOT	
	PEDIATRIC STUDIES ARE NOT NEEDED. The drug/biologic product has little potential for use in children.  Explain, on the back of this form, why pediatric studies are not needed.	
	to the way pediatric studies are not needed.	
4. [	EXPLAIN. If none of the above annly explain	
AIN AC	EXPLAIN. If none of the above apply, explain, as necessary, on the back of this form.	
und We	NECESSARY, ANY OF THE FOREGOING ITEMS ON THE BACK OF THIS FORM.	
Villedgelleren Sterner betreet	A THE BACK OF THIS FORM.	
•		
ure of	Prenaror and Till	
	Preparer and Title (PM, CSO, MO, other) 5/25/99	
	AIPLA #_ 21-05-2	
HFD - 6	<u> </u>	
NDAIPL	A Action Package	
1FD-510	VGTroendle (alue 6- 00-	
	//GTroendle (plus, for CDER APs and AEs, copy of action letter and labeling)	
Λ	v Pediatric Page must be completed at the time of each action even though	

TE: A new Pediatric Page must be completed at the time of each action even though one was prepared at the time of the last action.

### STATISTICAL REVIEW AND EVALUATION (Carcinogenicity Review) ADDENDUM

NDA #:

21-042

APPLICANT:

Merck Research Laboratories

NAME OF DRUG: VIOXX™ Tablets

DOCUMENTS REVIEWED: Volumes 52.28 through 52.34 of IND 46,894. Data

on Floppy Diskettes supplied by the sponsor.

REVIEWING PHARMACOLOGIST:

Susan D. Wilson, Ph.D. (HFD-550).

At the request of the reviewing pharmacologist, one additional tumor analysis was performed for female rats: Combined brain glioma and spinal chord glioma.

The tumor analysis results for the above analysis are displayed in the following Table.

	Female Rats				Tumor Rates		Trend
Organs	Tumor Name	Tumor Type	Control N=100	Low N=50	Medium N=50	High N=50	Test p-Value
Brain Spinal Chord	Glioma	Mixed	1	2	0	3	0.0914

No statistically significant positive linear trend was detected in the above analysis.

Concur:

Baldeo K. Taneja, Ph.D.

Mathematical Statistician (Biomed)

CC:

Archival NDA 21-042

HFD-550/Wilson, Cook, Weir, Hyde, Division File HFD-725/Taneja, Lin, Huque, Division File, Chron.